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Patent

By

JOHN A. PARRISH

DOCKET NO. PSU-013

APPLICANT: Allcock et al

SERIAL NO.: 10/779483

FILED: February 13, 2004

Art Unit: Unassigned

FOR: Synthesis of Polyphosphazenes with Sulfonimide Side Groups

Examiner: Unassigned

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.56 AND
37 C.F.R.1.97-1.98**

SIR:

Pursuant to 37 C.F.R. 1.56 AND 37 C.F.R. 1.97-1.98, Applicants hereby direct the Examiner's attention to the documents cited on the attached PTO-Form 1449, including the international search report form the PCT counterpart to the subject application and documents cited therein. Copies of the above-noted documents are submitted herewith. The Examiner is respectfully requested to consider each of these documents, and to make them of record in this application by initially in the appropriate space on the Form PTO-1449.

Applicants respectfully request that the Examiner include a copy of the initialed PTO-Form 1449 with the next communication from the U.S. Patent and Trademark Office. Since the submission of this information disclosure statement is prior to receipt of an office action on the merits, no fee is due.

Should the Examiner have any questions or comments regarding this matter, the undersigned may be contacted at the below-listed telephone number.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'J. A. Parrish', written in a cursive style.

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Enclosures

Form PTO-1449 U.S. Department of Commerce
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ATTY. DOCKET NO.
PSU-013

SERIAL NO.
10/779 483

**INFORMATION DISCLOSURE STATEMENT
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

APPLICANT: Allcock et al.

FILING DATE
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GROUP
Unassigned

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA 4107146	1978	Dieck et al			
	AB 4242499	1980	Allcock et al			
	AC 5457160	1995	Allock et al			
	AD 5723664	1998	Sakaguchi et al			
	AE 5747604	1998	Allcock et al			
	AF 5756231	1998	Andrei et al.			
	AG 5962169	1999	Angell et al			
	AH 6033804	2000	Doyle			
	AI 6087031	2000	Iwasaki et al			
	AJ 6124060	2000	Akita et al			
	AK 6183623	2001	Cisar et al.			
	AL 6248469	2001	Formato et al			
	AM 6365294	2002	Pintauro et al			
	AN 6423784	2002	Hamrock et al			
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	AN 6492047	2002	Peled et al			
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EXAMINER INITIALS	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
AQ	Ren et al, High Performance Direct Methanol Polymer Electrolyte Fuel Cells, J. Electrochemical Soc. Vol. 143, January 1996, pp.
AR	Koppel et al, The Gas-Phase Acidities of very strong neutral Bronsted Acids, J. Am. Chem. Soc. 1994, 116, 3047-3057, 1994
AS	Inzelt et al, Electron and proton conducting polymers: recent developments and prospects, Electrochimica Acta 45 (2000) 2403-2421
AT	Appleby, Electrochemical energy-progress towards a cleaner future: lead/acid batteries and the competition, J. Of Power sources 53 (1995) 187-197

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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	APPLICANT: Allcock et al.	
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EXAMINER INITIALS		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	AU	Alberti et al, Solid State Protonic Conductors, Present Main Applications And Future Prospects, Solid State Ionics 145 (2001) 3-16
	AV	Appleby, electrochemical energy-progress towards a cleaner future: lead/acid batteries and the competition, J. Power Sources 53 (1995) 187-197
	AW	Allcock et al, Synthesis of High Polymeric Alkoxy- and Aryloxyphosphonitriles, J. Am chem. Soc. /87:18/September 20, 1965,
	AX	Allcock et al, Polyphosphazenes with Etheric Side Groups; Prospective Biomedical and Solid Electrolyte Polymers, Macromolecules 1986, 19, 1508-1512
	B3	Allcock et al, Synthesis, Characterization, and Modification of Poly(organophosphazenes) with Both 2,2,2-Trifluoroethoxy and Phenoxy Side Groups, Macromolecules 1994, 27, 3933-3942
	AZ	Allcock et al, Gel electrolytes from co-substituted oligoethyleneoxy/trifluoroethoxy linear polyphosphazenes, Solid State ionics 143 (2001) 297-308
	B1	Barbir et al, Efficiency and Economics Of Proton Exchange Membrane (PEM) Fuel Cells, Int. J. Hydrogen Energy, Vol. 21, No. 10, pp. 891-901, 1996
	B2	Blonsky et al, Polyphosphazene solid electrolytes, J. Am. Chem. Soc. 1984, 106, 6854-55
	B3	Blonsky et al, Complex Formation and Ionic Conductivity of Polyphosphazene Solid Electrolytes, Solid State Ionics 18 & 19 (1986) 258-264
	B4	Chalkova et al, Sulfonimide polyphosphazene based H2/O2 Fuel Cells, Electrochemical And Solid State Letters, 5 (10) A221-A222 (2002)
	B5	Chovino et al, Vol. 35, 2719-2728 (1997)
	B6	Derand et al, Electrochimica Acta, Vol. 43, nos. 10-11, pp. 1525-1531, 1998
	B7	Fujinami et al, Chem Mater, 1997,9,2236-39
	B8	Ganapathiappan et al, J. Am. Chem. Soc. 1989, 111, 4091-95
	B9	Guo et al, j. Membrane science 154 (1999) 175-81
	B10	Hardy et al, J. Am. Chem. Soc. 1985, 107, 3823-3828
	B11	Hofmann et al, Macromolecules 2002, 35, 6490-6493
	B12	Inzelt et al, Electrochimica Acta 45 (2000) 2403-2421
	B13	Koppel et al, J. Am. Chem. Soc. 1994, 116, 3047-57
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	B15	Matsushita, Solid state ionics 133 (2000) 295-301
	B16	Onishi et al, Chem. Mater. 1996, 8, 469-472
	B17	Ren et al, J. electrochem. Soc., vol. 143, January 1996, pp. L12-L15
	B18	Siska et al, Chem. Mater. 2001, 13, no. 12, 4698-4700
	B19	Tada et al, Chem. Mater. 1994, 6, no. 1, 27-30
	B20	Tarascon et al, Nature, Vol. 414, 15 Nov 2001, pp. 359-367
	B21	Tsuchida et al, Macromolecules 1988, 21, no. 1, 96-100
	B22	Vincent, solid state ionics, 134 (2000) 159-167
	B23	Watanabe et al, Electrochimica Acta 45 (2000) 1187-1192
	B24	Wycisk et al, J. Membrane Science 119 (1996) 155-160
	B25	Xu, Chem. Mater. 2002, 14, 401-409

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